

TECHNICAL DATA SHEET

Recombinant Mouse FLT3 Ligand (Carrier-free)

Catalog Number: 21-8001

RPx-Pro™ Recombinant Protein PRODUCT INFORMATION

CONTENTS

Recombinant Mouse FLT3 Ligand (Carrier-free)

DESCRIPTION

FLT3 ligand acts upon hematopoietic precursors including stem cells. FLT3 ligand along with other Colony Stimulating Factors such as G-CSF or GM-CSF have critical functions as drivers of DC expansion and maturation and also appear to expand specific DC subsets. FLT3 ligand also acts in expansion and mobilization of DCs as well as enhancing both B and T cell numbers and activity. FLT3 ligand acts in conjunction with other CSFs and interleukins to induce growth and differentiation but does not independently stimulate proliferation of early hematopoietic cells. FLT3 ligand has no activity on mast cells.

MOLECULAR MASS

Recombinant Mouse FLT3 Ligand is a soluble 18.6 kDa protein composed of 163 amino acid residues.

AMINO ACID SEQUENCE

MTPDCYFSHS PISSNFKVKF RELTDHLLKD YPVTVAVNQ DEKHCKALWS LFLAQRWIEQ LKTVAGSKMQ TLLEDVNTEI
HFVTSCTFQP LPECLRFVQT NISHLLKDTQ TQLLALKPCI GKACQNF SRC LEVQCQPDSS TLLPPRSPIA LEATELPEPR PRQ

SOURCE

E. Coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1 EU/μg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

Human

BIOACTIVITY

Assessed by stimulation of the proliferation of human AML5 cells.

RESEARCH AREAS

Cancer; Cell Culture; Immune System; Proliferation; Stem Cells & Differentiation

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Pulendran B, J Banchereau and S Burkeholder 2000 J Immunol 165: 566-572. Steinman RM 1991 Annu Rev Immunol 9: 271-296. Pulendran B, JL Smith, G Caspary, K Brasel, D Pettit, E Maraskovsky and C Maliszewski 1999 Proc Natl Acad Sci USA 96: 1036-1041. Shurin MR, P Pandharipande, TD Zorina, C Haluszczak, VM Subbotin, O Hunter, A Brumfield, WJ Storkus, E Maraskovsky and MT Lotze 1997 Cell Immunol 179: 17. Shortman K and SH Naik 2006 Nature Rev Immunol 7: 19.

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